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BRUHAT BANGALORE MAHANAGARA PALIKE, YALAHANKA ZONE

Executive Engineer
Byatarayanapura Division
B.B.M.P., Bangalore - 92
T.N.GL Dated:

Draft SCHEDULE-B

Issued to :

Original / Duplicate
Item No.

Name of Work : Package -2 , ward 7 and 8, works from sub estimate 1 to 17

Sl. No	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
1	6071.22	Removing B.S Slab of Drain and stacking	sqm	63.72	
2	5606.72	Refixing stone slabs of drains and pointing in C.M (1:3)	sqm	78.84	
3	1724.50	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete - 10.0 cms thick	sqm	794.88	
4	7087.55	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications	cum	83.16	
5	22533.40	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications	sqm	88.56	
6	4390.30	Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification	cum	1713.96	
7	21970.00	Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications	sqm	12.96	
8	21970.00	Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqm over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications	sqm	70.20	
9	17670.00	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications	sqm	3.24	
10	17670.00	Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications.	sqm	15.12	

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11	104.52	Providing and laying bituminous macadum on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using 100-120 TPH capacity H.M.P with sensor paver grading II (50 to 75mm) with 3.3% VG-30 bitumen.	cum	6864.48	
12	1415.52	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 509 complete in all respects as per specifications. using 100-120 TPH capacity H.M.P with sensor paver grading II (30 to 45mm) with 6% CRMB-55	cum	11618.64	
13	6542.69	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means including loading and unloading.	cum	78.97	
14	59.25	Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.	cum	159.84	
15	259.80	Providing and laying heavy duty cobble stones 75 mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50 mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications	sqm	1014.12	
16	261.00	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications	sqm	85.32	
17	1.00	Providing Children Play Two Seater Standard Swing Equipment: This swing' consist of 2 Nos. seats of solid metal seats powder coated of Size-500mmx 250mm x 16 SWG supported by MS chains of Length 1.8mtrs, each seat is suspended by 1 line of chain. The chains are supported by circular housingswith bearing from which the chain in suspended. The beam is of 50mm MS tAt class pipe. Size of MS • chain 30mm x 20mm x 5mm thick, the length of the main beam is 2.40 mtrs and No. 1 24800.00 25300.00 28400.00 24000 00 -263 00 00 *-Lowestheight 2.00mtrs. The 2 Nos of cost iron-heads. Four footing are in 42mm pipes. All pipes are of ISI grade. All the pipes are painted with two coats of superset paint over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer in charge of the work	No.	26400.00	

No	Approved Quantity	Description	Unit	Rates	
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18	2.00	Providing Children Play Merry-Go-Round Equipment: Made of MS 'A' class pipes. Main pillars are in 100mm, fitted with shaft and two bearings and other cross members are in 25 & 20mm MA 'A' Class pipes, bottom ring is made out of 25mm 0 ring size is 1.20 mtrs Dia, fitted with four seats are in mental sats of 250 x 200 x 18SGE, handles are made out of 20mm NB pipes and other supports are in 25mm MS 'N class pipes. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer In enarce of the work	No.	28000.00	
19	1.00	Providing Children Play Two Seater Swing Duck Equipment: This swing consist of 2 Nos. FRP Ducks supported by MS chains of Length 1.05mtrs. each duck Is suspended by 3 lines of chains. The chains are supported by circular housings with bearing from which the chain in suspended. The main beam is of 42mm MS 'A' class pipe. Size of MS chain 30mm x 20mm x 5mm thick, the length of the main beam is 2.40 mtrs and height 1.95mtrs. Four footing are in 42mm pipes. All pipes are of ISI grade. All the pipes are painted with two coats of super set paint over a coat 0 protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as per the drawing and specification and direction of the Enalneer in charae of the work.	No	30800.00	
20	10.00	Providing Sitting chairs made of RCC including steel reinforcement as per the directions of the Engineer-in-charge of the work	No.	6600.00	
21	0.94	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465 cum machine mixed. concrete laid in layers not. exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials. labour, HOM of machinery, curing complete as per specifications.	cum	5236.92	
22	527.76	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregates @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. specification.	cum	5991.84	
23	126.00	Supplying and fixing MS rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC 1:2:4 with 2 No. of 16mm dia MS hold fast rods each of length 25 cm, including cost of all materials, cutting, bending, scaffolding wherever necessary, nicely finishing the welded joints with all leads and lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)	Rm	991.44	
24	522.00	Providing and fixing MS block pipe of 38 mm dia of heavy gauge of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two vertical poles (MS rectangular poles) and spot welding the chain link with MS block pipe including cost of all materials, wastage in cutting and scaffolding wherever necessary with all lead and lift as directed by the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint	Rm	338.04	

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25	261.00	Providing chain link fencing 50mm size of 8 gauge properly stretched between existing rectangular poles and fixed with suitable bolts and nuts. the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour lead and lifts as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint	sqm	697.68	
26	0.244	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making laster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour. HOM of machineries complete as per specifications	cum	108792.040	
27	4.09	Providing and fixing in position fully panelled Honne wood shutters for doors styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	sqm	3952.74	
28	6.24	Providing and fixing in position fully panelled Honne wood fully panelled shutters for windows with styles and rails of 35mm. thick, 75mm wide in two halves with panels of 25mm thick including cost of cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	sqm	5051.96	
29	14.43	KSRB15-17 : Painting of wood surface KSRB 15-17.1 : Applying priming coat over new wood surface and / or wood based surface with white lead paint priming including preparing the surface after thoroughly cleaning oil, grease dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work	sqm	32.86	
30	14.43	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work	sqm	85.86	
31	63.78	Dismantling weather proof course and removing and conveying the debris to a distance upto 200m	sqm	466.40	
32	63.78	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. A. Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound over the RCC slab after cleaning the surface before treatment. B. Laying cement concrete using broken brick bats 25mm to 200mm size with 50% of cm 1:5 admixed with water proofing comund. C proper curing. D. Finishing with 20mm thick joint less cm of mix 1:4, e. whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications	sqm	909.48	
33	8.40	Providing and fixing on wall surface 2.5kg / sq.cm H.D.P.E. rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications	Rm	505.62	
34(a)	2.00	Providing fixtures - Door Lock	No.	401.00	
34(b)	4.00	Providing fixtures - Handles power coated 150mm	No.	56.00	
34(c)	16.00	Providing fixtures - Hinges 5" heavy duty	No.	37.00	
34(d)	4.00	Providing fixtures - Tower bolt 300 mm long	No.	116.00	

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35	11.42	Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications	Qtl	6368.48	
36	74.70	Providing and removing centering, shuttering, strutting, propping etc , and removal of form work for vertical surface such as walls at any thickness including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.	sqm	301.04	
37	346.90	Dismantling plastering and removing the debris with a lead upto 200m including cost of materials, labour, HOM of machineries complete as per specifications	sqm	23.32	
38	55.80	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm	193.98	
39	103.67	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Inside wall)	sqm	235.32	
40	159.47	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications	sqm	25.44	
41	178.68	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	sqm	199.28	
42	159.47	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labours, complete as per specifications	sqm	69.96	
43	178.68	providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after toughly brooming the surface to remove all dirt and lose powdered material, free from mortar drops and other foreign matter cost of materials, labours, complete as per specifications with Primer	sqm	83.74	
44	178.68	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications	sqm	83.74	
45	926.47	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications	cum	6198.12	

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46	8.75	Providing and fixing of wall cladding using 20mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the xcolour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing etc., complete	sqm	2352.14	
47	1170.24	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications	cum	5070.60	
48	5265.00	Vacuum De-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift	sqm	97.20	
49	351.00	Providing groove cutting for cement pavement with of 5mm to 10mm and depth 800mm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including cleaning of groove and providing sand and hot bitumen fillers and filler metal etc including of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications	Rm	124.20	
50	1909.98	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. (Approved data rate enclosed)	sqm	1600.00	
51	140.94	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable ble material and stacking the serviceable material with all lifts complete as per specifications.- Rubble stone masonry in cement mortar	cum	250.56	
52	93.42	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable ble material and stacking the serviceable material with all lifts complete as per specifications. - RCC grade M20 and above	cum	1042.20	
53	158.40	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 N/sqmm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cm conforming to IS 2185 / 1965 in superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications	sqm	1018.44	
54		Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications			
A	88.93	With Available stones	cum	3852.36	
B	57.95	With New stones	cum	5159.16	
55	765.00	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4	sqm	97.20	

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56	58.17	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification	cum	5490.72	
57	469.07	Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications	Qtl	6488.64	
53	6726.04	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.	sqm	306.72	
59	1592.00	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete	No.	373.68	
60	1432.00	Providing and applying ready mix priming coat over concrete / masonry, / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour complete as per specifications.	sqm	27.00	
61	1432.00	Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry, / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour complete as per specifications.	sqm	68.04	

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